

Contribution from Dr Jitka Rychtarikova

vik	qx	px	lx	dx	Lx_1	Tx	ex
	0	0.013923375	0.986076625	100000	1392.337478	98719.04952	67.48414616
	1	0.000898303	0.999101697	98607.66252	88.57958917	98563.37273	67.43589085
	2	0.000619173	0.999380827	98519.08293	61.00033019	98488.58277	66.49607365
	3	0.000425375	0.999574625	98458.0826	41.88161009	98437.1418	65.53696193
	4	0.000391704	0.999608296	98416.20099	38.54999354	98396.926	64.56463881
	5	0.000383259	0.999616741	98377.651	37.70413906	98358.79893	63.589743
	6	0.000375292	0.999624708	98339.94686	36.90623133	98321.49374	62.61393199
	7	0.000378493	0.999621507	98303.04063	37.20705866	98284.4371	61.63725163
	8	0.000370483	0.999629517	98265.83357	36.40582493	98247.63066	60.66040044
	9	0.00033607	0.99966393	98229.42774	33.01194305	98212.92177	59.68269711
10	0.000297121	0.999702879	98196.4158	29.17623911	98181.82768	5764384.261	58.70259331
11	0.000253473	0.999746527	98167.23956	24.88278622	98154.79817	5666202.434	57.71989168
12	0.000247103	0.999752897	98142.35678	24.25129782	98130.23113	5568047.636	56.73439908
13	0.00028793	0.99971207	98118.10548	28.25114401	98103.97991	5469917.404	55.74829821
14	0.000356992	0.999643008	98089.85433	35.01727161	98072.3457	5371813.425	54.76421044
15	0.000507407	0.999492593	98054.83706	49.75375025	98029.96019	5273741.079	53.78358923
16	0.000749964	0.999250036	98005.08331	73.50031925	97968.33315	5175711.119	52.81063945
17	0.000915653	0.999084347	97931.58299	89.67134483	97886.74732	5077742.786	51.84990001
18	0.001033329	0.998966671	97841.91165	101.1029153	97791.36019	4979856.038	50.89696179
19	0.001038785	0.998961215	97740.80873	101.5317335	97690.04287	4882064.678	49.94909231
20	0.001076671	0.998923329	97639.277	105.1253989	97586.7143	4784374.635	49.00051273
21	0.001080995	0.998919005	97534.1516	105.4339618	97481.43462	4686787.921	48.05278812
22	0.001167614	0.998832386	97428.71764	113.7590861	97371.8381	4589306.486	47.10424808
23	0.001133833	0.998866167	97314.95855	110.3388898	97259.78911	4491934.648	46.15872745
24	0.00113274	0.99886726	97204.61966	110.1075789	97149.56587	4394674.859	45.21055557
25	0.001093569	0.998906431	97094.51208	106.1795754	97041.4223	4297525.293	44.26125845
26	0.001196641	0.998803359	96988.33251	116.0601847	96930.30242	4200483.871	43.30916681
27	0.00128711	0.99871289	96872.27232	124.6852861	96809.92968	4103553.568	42.36045537
28	0.001403934	0.998596066	96747.58704	135.8271871	96679.67344	4006743.639	41.41440383
29	0.001387262	0.998612738	96611.75985	134.0258089	96544.74695	3910063.965	40.47192569
30	0.001406516	0.998593484	96477.73404	135.6974884	96409.8853	3813519.218	39.52745425
31	0.001325252	0.998674748	96342.03655	127.6774508	96278.19783	3717109.333	38.58242431
32	0.00141394	0.99858606	96214.3591	136.0412857	96146.33846	3620831.135	37.63296008
33	0.001566523	0.998433477	96078.31782	150.508921	96003.06336	3524684.797	36.68553818
34	0.001778731	0.998221269	95927.8089	170.629787	95842.494	3428681.733	35.74231261
35	0.00194881	0.99805119	95757.17911	186.6125498	95663.87283	3332839.239	34.80511091
36	0.002105079	0.997894921	95570.56656	201.183553	95469.97478	3237175.367	33.8720956
37	0.002367686	0.997632314	95369.38301	225.804799	95256.48061	3141705.392	32.94249467
38	0.002719625	0.997280375	95143.57821	258.7548936	95014.20076	3046448.911	32.01949063
39	0.003057306	0.996942694	94884.82331	290.0919538	94739.77734	2951434.71	31.10544561
40	0.003542684	0.996457316	94594.73136	335.1192157	94427.17175	2856694.933	30.19930277
41	0.00400564	0.99599436	94259.61214	377.5700953	94070.8271	2762267.761	29.30489208
42	0.004275255	0.995724745	93882.04205	401.3696399	93681.35723	2668196.934	28.42073815
43	0.004817242	0.995182758	93480.67241	450.3190641	93255.51288	2574515.577	27.54061894
44	0.005197585	0.994802415	93030.35334	483.5331769	92788.58676	2481260.064	26.67151069
45	0.005628898	0.994371102	92546.82017	520.9366338	92286.35185	2388471.477	25.80825006
46	0.006212341	0.993787659	92025.88353	571.6962124	91740.03543	2296185.126	24.95151405
47	0.006986732	0.993013268	91454.18732	638.9659308	91134.70436	2204445.09	24.10436476
48	0.007708405	0.992291595	90815.22139	700.0405026	90465.20114	2113310.386	23.27044248
49	0.008803762	0.991196238	90115.18089	793.3526397	89718.50457	2022845.185	22.44732979
50	0.009647663	0.990352337	89321.82825	861.7469014	88890.9548	1933126.68	21.64226503
51	0.010630743	0.989369257	88460.08135	940.3963919	87989.88315	1844235.725	20.84822552
52	0.011617103	0.988382897	87519.68496	1016.725214	87011.32235	1756245.842	20.06686659
53	0.012951647	0.987048353	86502.95974	1120.355772	85942.78185	1669234.52	19.29684863
54	0.014464794	0.985535206	85382.60397	1235.04179	84765.08307	1583291.738	18.54349322
55	0.016441083	0.983558917	84147.56218	1383.477021	83455.82367	1498526.655	17.80831929
56	0.0181491	0.9818509	82764.08516	1502.093641	82013.03834	1415070.831	17.0976436
57	0.01937836	0.98062164	81261.99152	1574.724098	80474.62947	1333057.793	16.40444405
58	0.02136825	0.97863175	79687.26742	1702.77749	78835.87867	1252583.163	15.71873656
59	0.023366282	0.976633718	77984.48993	1822.207554	77073.38615	1173747.285	15.05103497
60	0.025591463	0.974408537	76162.28237	1949.104229	75187.73026	1096673.899	14.39917324
61	0.028442539	0.971557461	74213.17814	2110.811222	73157.77253	1021486.168	13.76421538
62	0.030868755	0.969131245	72102.36692	2225.710272	70989.51179	948328.3958	13.15252794
63	0.033455814	0.966544186	69876.65665	2337.78043	68707.76644	877338.884	12.55553608
64	0.038254532	0.961745468	67538.87622	2583.668105	66247.04217	808631.1175	11.97282458
65	0.04131022	0.95868978	64955.20812	2683.31394	63613.55115	742384.0754	11.42916938
66	0.043262135	0.956737865	62271.89418	2694.015076	60924.88664	678770.5242	10.90011045
67	0.046553288	0.953446712	59577.8791	2773.546175	58191.10601	617845.6376	10.37038658
68	0.048057117	0.951942883	56804.33292	2729.852483	55439.40668	559654.5316	9.852321166
69	0.052208776	0.947791224	54074.48044	2823.162443	52662.89922	504215.1249	9.324456209
70	0.057938816	0.942061184	51251.318	2969.44068	49766.59766	451552.2257	8.810548554
71	0.062642931	0.937357069	48281.87732	3024.518294	46769.61817	401785.628	8.321665402
72	0.067992171	0.932007829	45257.35903	3077.146117	43718.78597	355016.0098	7.844381941
73	0.076421165	0.923578835	42180.21291	3223.461005	40568.48241	311297.2239	7.380171943
74	0.083558209	0.916441791	38956.7519	3255.156417	37329.1737	270728.7415	6.949469045
75	0.091356549	0.908643451	35701.95949	3261.574543	34070.80822	233399.5678	6.537510848
76	0.098912739	0.901087261	32440.02094	3208.731322	30835.65528	199328.7596	6.144532394
77	0.107369138	0.892630862	29231.28962	3138.538373	27662.02044	168493.1043	5.76413516
78	0.115901048	0.884098952	26092.75125	3024.177224	24580.66264	140831.0838	5.397325966

79	0.126543691	0.873456309	23068.57402	2919.182507	21608.98277	116250.4212	5.039341447
80	0.13861033	0.86138967	20149.39152	2792.913816	18752.93461	94641.43843	4.696987418
81	0.151707803	0.848292197	17356.4777	2633.113106	16039.92115	75888.50382	4.37234473
82	0.166296608	0.833703392	14723.3646	2448.445594	13499.1418	59848.58267	4.064871333
83	0.181489866	0.818510134	12274.919	2227.773406	11161.0323	46349.44087	3.775946779
84	0.198191602	0.801808398	10047.1456	1991.259883	9051.515654	35188.40857	3.502328919
85	0.216310365	0.783689635	8055.885713	1742.571576	7184.599925	26136.89292	3.244446837
86	0.235920019	0.764079981	6313.314137	1489.437192	5568.595541	18952.29299	3.001956276
87	0.257087757	0.742912243	4823.876945	1240.159702	4203.797094	13383.69745	2.774469085
88	0.279871157	0.720128843	3583.717243	1002.97909	3082.227698	9179.900359	2.561558219
89	0.304314766	0.695685234	2580.738153	785.3567263	2188.05979	6097.67266	2.362763015
90	0.330446188	0.669553812	1795.381427	593.276948	1498.742953	3909.61287	2.177594584
91	0.358271718	0.641728282	1202.104479	430.680037	986.7644603	2410.869918	2.005541083
92	0.387771585	0.612228415	771.4244418	299.1364783	621.8562027	1424.105457	1.846072512
93	0.418894919	0.581105081	472.2879635	197.8390281	373.3684495	802.2492547	1.698644295
94	0.45155464	0.54844536	274.4489355	123.9286902	212.4845903	428.8808052	1.56269801
95	0.485622521	0.514377479	150.5202452	73.09602088	113.9722348	216.3962149	1.437655211
96	0.520924778	0.479075222	77.42422435	40.33219685	57.25812592	102.4239801	1.322893202
97	0.55723864	0.44276136	37.0920275	20.66911097	26.75747201	45.16585414	1.217670135
98	0.594290424	0.405709576	16.42291652	9.759982024	11.54292551	18.40838213	1.120896042
99	0.631755712	0.368244288	6.662934498	4.209346926	4.558261035	6.865456623	1.030395335
100	0.669262283	0.330737717	2.453587572	1.642093619	1.632540762	2.307195588	0.940335537
101	0.706396392	0.293603608	0.811493953	0.573236401	0.524875752	0.674654826	0.831373818
102	0.742712901	0.257287099	0.238257552	0.176956958	0.149779073	0.149779073	0.628643549
103	0.777749518	0.222250482	0.061300594	0.061300594	0	0	0

vik	qx	px	lx	dx	Lx_1	Tx	ex
0	0.010405701	0.989594299	100000	1040.570094	99042.67551	7462487.345	74.62487345
1	0.000653193	0.999346807	98959.42991	64.63957185	98927.11012	7363444.669	74.4087216
2	0.000438932	0.999561068	98894.79033	43.40806081	98873.0863	7264517.559	73.45702978
3	0.000267563	0.999732437	98851.38227	26.44892336	98838.15781	7165644.473	72.489067
4	0.000243155	0.999756845	98824.93335	24.02975382	98812.91847	7066806.315	71.50833373
5	0.000232011	0.999767989	98800.9036	22.9229326	98789.44213	6967993.396	70.52560394
6	0.000259353	0.999740647	98777.98066	25.61835608	98765.17149	6869203.954	69.54185445
7	0.000237619	0.999762381	98752.36231	23.46539843	98740.62961	6770438.783	68.5597653
8	0.000224274	0.999775726	98728.89691	22.14227585	98717.82577	6671698.153	67.57594141
9	0.000194801	0.999805199	98706.75463	19.22814049	98697.14056	6572980.327	66.59098814
10	0.000159795	0.999840205	98687.52649	15.76972666	98679.64163	6474283.187	65.60386522
11	0.000133848	0.999866152	98671.75677	13.20699294	98665.15327	6375603.545	64.61427012
12	0.000147927	0.999852073	98658.54977	14.59429298	98651.25263	6276938.392	63.62285282
13	0.000168397	0.999831603	98643.95548	16.61137295	98635.64979	6178287.139	62.6321918
14	0.000197025	0.999802975	98627.34411	19.43204548	98617.62808	6079651.49	61.64265645
15	0.000284425	0.999715575	98607.91206	28.04652216	98593.8888	5981033.861	60.65470545
16	0.000333362	0.999666638	98579.86554	32.86273244	98563.43417	5882439.973	59.6718198
17	0.000320558	0.999679442	98547.00281	31.59002759	98531.20779	5783876.538	58.69155199
18	0.000327886	0.999672114	98515.41278	32.30185428	98499.26185	5685345.331	57.71021173
19	0.000323734	0.999676266	98483.11093	31.88237627	98467.16974	5586846.069	56.72897633
20	0.000285193	0.999714807	98451.22855	28.07757047	98437.18976	5488378.899	55.74718548
21	0.000341618	0.999658382	98423.15098	33.62314454	98406.33941	5389941.709	54.76294607
22	0.000381622	0.999618378	98389.52783	37.54761289	98370.75403	5291535.37	53.78148962
23	0.000398169	0.999601831	98351.98022	39.16071399	98332.39986	5193164.616	52.80183077
24	0.00047275	0.99952725	98312.81951	46.47740117	98289.58081	5094832.216	51.82266404
25	0.000468472	0.999531528	98266.34211	46.0350415	98243.32459	4996542.635	50.84693851
26	0.000438753	0.999561247	98220.30706	43.09441856	98198.75986	4898299.311	49.8705335
27	0.000455513	0.999544487	98177.21265	44.72094919	98154.85217	4800100.551	48.89220646
28	0.000468472	0.999531528	98132.4917	45.97231686	98109.50554	4701945.699	47.91425977
29	0.000468439	0.999531561	98086.51938	45.94756896	98063.5456	4603836.193	46.93648243
30	0.000586388	0.999413612	98040.57181	57.48982948	98011.8269	4505772.647	45.95824529
31	0.000656978	0.999343022	97983.08198	64.37272205	97950.89562	4407760.821	44.9849171
32	0.000778341	0.999221659	97918.70926	76.21411984	97880.6022	4309809.925	44.01416193
33	0.00081748	0.99918252	97842.49514	79.98426427	97802.50301	4211929.323	43.04805715
34	0.000866545	0.999133455	97762.51088	84.71561191	97720.15307	4114126.82	42.08286779
35	0.000860965	0.999139035	97677.79526	84.09713384	97635.7467	4016406.667	41.11893246
36	0.000944071	0.999055929	97593.69813	92.13537161	97547.63044	3918770.92	40.15393407
37	0.001019899	0.998980101	97501.56276	99.44172648	97451.84189	3821223.29	39.19140557
38	0.001196307	0.998803693	97402.12103	116.5228138	97343.85962	3723771.448	38.23090717
39	0.001336947	0.998663053	97285.59822	130.0656849	97220.56538	3626427.588	37.27609897
40	0.001574145	0.998425855	97155.53253	152.9369128	97079.06408	3529207.023	36.32533249
41	0.001826825	0.998173175	97002.59562	177.2067666	96913.99224	3432127.959	35.38181568
42	0.002047794	0.997952206	96825.38885	198.2784214	96726.24964	3335213.966	34.44565528
43	0.002156523	0.997843477	96627.11043	208.3785521	96522.92116	3238487.717	33.51531162
44	0.002316935	0.997683065	96418.73188	223.3959586	96307.0339	3141964.796	32.58666376
45	0.002384229	0.997615771	96195.33592	229.3517358	96080.66005	3045657.762	31.66117913
46	0.002537699	0.997462301	95965.98419	243.5327412	95844.21782	2949577.102	30.73565208
47	0.002863857	0.997136143	95722.45144	274.1354101	95585.38374	2853732.884	29.81257626
48	0.003278708	0.996721292	95448.31603	312.9471427	95291.84246	2758147.5	28.89676439
49	0.003550719	0.996449281	95135.36889	337.798996	94966.46939	2662855.658	27.99017535
50	0.003999069	0.996000931	94797.5699	379.1020483	94608.01887	2567889.188	27.08813307
51	0.004408197	0.995591803	94418.46785	416.21525	94210.36022	2473281.169	26.1948877
52	0.004714579	0.995285421	94002.2526	443.1810856	93780.66205	2379070.809	25.30865743
53	0.005198963	0.994801037	93559.07151	486.4101204	93315.86645	2285290.147	24.42617386
54	0.005925095	0.994074905	93072.66139	551.4644022	92796.92919	2191974.281	23.55121523
55	0.006579338	0.993420662	92521.19699	608.7281906	92216.83289	2099177.351	22.68860996
56	0.007382941	0.992617059	91912.4688	678.5843007	91573.17665	2006960.518	21.83556317
57	0.008174607	0.991825393	91233.8845	745.8011169	90860.98394	1915387.342	20.99425397
58	0.008810598	0.991189402	90488.08338	797.2541532	90089.4563	1824526.358	20.16316723
59	0.009782592	0.990217408	89690.82923	877.4088154	89252.12482	1734436.902	19.33795146
60	0.010997137	0.989002863	88813.42041	976.6933508	88325.07374	1645184.777	18.52405604
61	0.012071178	0.987928822	87836.72706	1060.292767	87306.58068	1556859.703	17.72447307
62	0.013416631	0.986583369	86776.43429	1164.24743	86194.31058	1469553.122	16.93493325
63	0.014636971	0.985363029	85612.18686	1253.1031	84985.63531	1383358.812	16.15843331
64	0.01692155	0.98307845	84359.08376	1427.486427	83645.34055	1298373.176	15.39102985
65	0.019755366	0.980244634	82931.59734	1638.344094	82112.42529	1214727.836	14.64734643
66	0.021819976	0.978180024	81293.25324	1773.816837	80406.34483	1132615.411	13.93246506
67	0.024245563	0.975754437	79519.43641	1927.993531	78555.43964	1052209.066	13.23209914
68	0.026148632	0.973851368	77591.44288	2028.910051	76576.98785	973653.6261	12.54846656
69	0.028716623	0.971283377	75562.53283	2169.900746	74477.58245	897076.6383	11.87197682
70	0.032199282	0.967800718	73392.63208	2363.19004	72211.03706	822599.0558	11.20819669
71	0.036413237	0.963586763	71029.44204	2586.411925	69736.23608	750388.0188	10.5644645
72	0.040749776	0.959250224	68443.03012	2789.038147	67048.51104	680651.7827	9.944793233
73	0.04561403	0.95438597	65653.99197	2994.74317	64156.62038	613603.2717	9.346016187
74	0.050282169	0.949717831	62659.2488	3150.64296	61083.92732	549446.6513	8.768803677
75	0.05605463	0.94394537	59508.60584	3335.732868	57840.7394	488362.724	8.206589905
76	0.062908397	0.937091603	56172.87297	3533.745397	54406.00027	430521.9846	7.664232961
77	0.070950517	0.929049483	52639.12757	3734.773336	50771.7409	376115.9843	7.145178912
78	0.079416564	0.920583436	48904.35424	3883.81577	46962.44635	325344.2434	6.652664133

79	0.088479506	0.911520494	45020.53847	3983.394996	43028.84097	278381.797	6.18343997
80	0.098698423	0.901301577	41037.14347	4050.301349	39011.9928	235352.9561	5.735120336
81	0.110139005	0.889860995	36986.84212	4073.693978	34949.99513	196340.9633	5.308400285
82	0.122993476	0.877006524	32913.14814	4048.102505	30889.09689	161390.9681	4.903540902
83	0.137260109	0.862739891	28865.04564	3962.019315	26884.03598	130501.8712	4.521103929
84	0.15306292	0.84693708	24903.02632	3811.729916	22997.16137	103617.8353	4.160853139
85	0.170528545	0.829471455	21091.29641	3596.668098	19292.96236	80620.67389	3.822461756
86	0.189783768	0.810216232	17494.62831	3320.196479	15834.53007	61327.71153	3.505516691
87	0.210952241	0.789047759	14174.43183	2990.128158	12679.36775	45493.18146	3.209524164
88	0.234150299	0.765849701	11184.30367	2618.808049	9874.899648	32813.81371	2.933916556
89	0.259481723	0.740518277	8565.495623	2222.589561	7454.200843	22938.91407	2.678060333
90	0.287031364	0.712968636	6342.906062	1820.612978	5432.599573	15484.71322	2.441264788
91	0.316857575	0.683142425	4522.293084	1432.922819	3805.831674	10052.11365	2.222791284
92	0.348983466	0.651016534	3089.370264	1078.139143	2550.300692	6246.281976	2.021862529
93	0.383387121	0.616612879	2011.231121	771.0801085	1625.691066	3695.981284	1.837671089
94	0.41999105	0.58000895	1240.151012	520.852326	979.7248492	2070.290217	1.66938558
95	0.458651386	0.541348614	719.2986862	329.9073396	554.3450164	1090.565368	1.516150924
96	0.499147546	0.500852454	389.3913466	194.363735	292.2094791	536.2203516	1.377073107
97	0.541173402	0.458826598	195.0276116	105.543756	142.2557336	244.0108725	1.251160646
98	0.5843313	0.4156687	89.48385558	52.28821765	63.33974676	101.7551389	1.137134047
99	0.628130521	0.371869479	37.19563793	23.36371541	25.51378022	38.41539211	1.032792936
100	0.671991972	0.328008028	13.83192252	9.294940883	9.184452074	12.90161189	0.93274177
101	0.715260862	0.284739138	4.536981633	3.245125393	2.914418937	3.717159816	0.819302372
102	0.757228778	0.242771222	1.29185624	0.978230722	0.802740879	0.802740879	0.621385611
103	0.797165842	0.202834158	0.313625518	0.313625518	0	0	0